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Submitted by:	Atty. Docket No.	Serial No.
	GP-304476	
General Motors Corporation	Applicants	
	Ramesh B. Poola et al.	
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U.S. PATENT DOCUMENTS

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	4,297,983	11/03/1981	Ward			
	4,474,147	10/02/1984	Hoopes			
	4,616,612	10/14/1986	Jane			
	4,883,032	11/28/1989	Hunter et al.			
	4,955,338	09/11/1990	Diwakar et al.			
	5,158,055	10/27/1992	Oh et al.			
	5,553,585	09/10/1996	Paro			
	6,164,260	12/26/2000	Bock			
	6,513,476	02/04/2003	Liu et al.			
	6,637,402	10/28/2003	Liu			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

"Effects of Combustion Chamber Geometry on In-Cylinder Air Motion and Performance in DI Diesel Engine" Paper 2000-01-0510, Society of Automotive Engineers, 2000 World Conference, Detroit, MI, March 6-9, 2000.

"Investigation of Effects of Piston Bowl and Fuel Injector Offsets on Combustion and Emissions in D.I. Diesel Engines" Paper 2002-01-1748, Society of Automotive Engineers, Spring Meeting, Reno, NV, May 6-9, 2002.

"Measurement and Modeling of the Flow-Field in a DI Diesel Engine: Effects of Piston Bowl Shape and Engine Speed" Paper 982587, Society of Automotive Engineers, Fall Meeting, San Francisco, CA, October 19-22, 1998.

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	2002/0040346	11/15/2001	Takashima			
	2001/0048199	12/06/2001	Evans			
	2002/0189583	12/19/2002	Inoue et al.			
	2003/0015167	01/23/2003	Liu et al.			
	2003/0136372	07/24/2003	Liu et al.			
	2003/0140890	07/31/2003	Liu et al.			
	2003/0183178	10/02/2003	Caprotti et al.			
	2003/0184023	10/02/2003	Masuyama et al.			
	2003/0200955	10/30/2003	zur Loye et al.			
	2003/0221657	12/04/2003	Sananes			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|."Influence of Geometry on Flow in the Combustion Chamber of a Direct-Injection Diesel Engine" General Motors Corporation, Detroit, MI, Abstract of GM Document GMR-4995, June 14, 1985.

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